PATENT COOPERATION TREAT

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P200301864 WO	FOR FURTHER ACTION See Form PCT/IPEA/416			
International application No.	International filing date (da	,	ty date (day/month/year)	
PCT/EP2005/002601	10.03.2005	01.0	4.2004	
International Patent Classification (IPC) or n INV. H04R1/22 H04R1/28	ational classification and IPC			
Applicant SONY ERICSSON MOBILE COMMUNICATIONS AB et al.				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
This REPORT consists of a total of 5 sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. \square sent to the applicant and	a. \square sent to the applicant and to the International Bureau) a total of sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International	bles related thereto, in ce	licate type and number of ele lectronic form only, as indica le Administrative Instructions	ectronic carrier(s)) ,containing a ted in the Supplemental Box).	
This report contains indications in the second contains in the	elating to the following ite	ms:		
	port			
☐ Box No. II Priority	•			
	nent of opinion with rega	d to novelty, inventive step a	nd industrial applicability	
☐ Box No. IV Lack of unity of	f invention			
⊠ Box No. V Reasoned state applicability; c	ement under Article 35(2 tations and explanations	with regard to novelty, inven supporting such statement	tive step or industrial	
☐ Box No. VI Certain docum				
	s in the international appl			
☐ Box No. VIII Certain obser	rations on the internation	l application		
Date of submission of the demand	!	Date of completion of this repor	T .	
14.10.2005		21.04.2006		
Name and mailing address of the internati preliminary examining authority:		Authorized officer	user Palenten,	
European Patent Office - P. NL-2280 HV Rijswijk - Pays	Bas	Fülöp, İ	siones Oll	
Tel. +31 70 340 - 2040 Tx: 31 651 epó nl Fax: +31 70 340 - 3016		Telephone No. +31 70 340-1963		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/002601

	Box No. I	Basis of the report
 With regard to the language, this report is based on the international application in the language in villed, unless otherwise indicated under this item. 		
	which □ inte	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of: ernational search (under Rules 12.3 and 23.1(b)) blication of the international application (under Rule 12.4)
	□ inte	ernational preliminary examination (under Rules 55.2 and/or 55.3)
2.	have been	d to the elements* of the international application, this report is based on <i>(replacement sheets whicl furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>
	Description	ı, Pages
	1-6	as originally filed
	Claims, Nu	mbers
	1-7	as originally filed
	Drawings,	Sheets
	1/2-2/2	as originally filed
	☐ a sequ	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ the ☐ the ☐ the ☐ the	mendments have resulted in the cancellation of: e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): y table(s) related to sequence listing (specify):
4.	had not be Suppleme the	eport has been established as if (some of) the amendments annexed to this report and listed below the made, since they have been considered to go beyond the disclosure as filed, as indicated in the intal Box (Rule 70.2(c)). It description, pages to claims, Nos. It drawings, sheets/figs to sequence listing (specify): It is the made, since they have been considered to go beyond the disclosure as filed, as indicated in the intal Box (Rule 70.2(c)).
	* If it	tem 4 applies, some or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/002601

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3,6,7

No: Claims

1,2,4,5

Inventive step (IS)

Yes: Claims

No: Claims

1-7

Industrial applicability (IA)

Yes: Claims

1-7

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

I. Reference is made to the following documents:

D1: GB-A-2 347 302 (NIPPON ELECTRIC CO) 30 August 2000 (2000-08-30)

D2: US-B-6 473 6251 (MERCER JOHN ET AL) 29 October 2002 (2002-10-29)

D3: US-A-4 228 379 (GUSCOTT JOHN K ET AL) 14 October 1980 (1980-10-14)

- II. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of **claims 1, 2, 4 and 5** is not new in the sense of Article 33(2) PCT and the subject-matter of **claims 3, 6 and 7** is not inventive in the sense of Article 33(3) PCT.
- Document D1, which appears to be the closest prior art document, discloses all the features of independent claim 1 (see, especially, abstract and figures 5, 6).
 Claim 1 infringe thus Article 33(2) PCT.
- Document D1 discloses also all the features of dependent claims 2, 4 and 5 (see, especially, abstract and figures 1, 2, 5 and 6).
 Claims 2, 4 and 5 infringe thus also Article 33(2) PCT.
- The features of the other dependent claims are either disclosed by the prior art documents or constructional details well known to the skilled person:

Claims 6 and 7: the features of these claims are well known in the art of dimensioning resonator cavities for communication units and applied by the skilled person whenever necessary in order to solve the problem posed. Indeed, document D2 discloses for instance a Helmholtz resonator (see column 3, lines 54 - 65) as claimed in claim 6 for a communication unit similar to the one claimed in claim 1. Moreover, document D3 discloses a cavity with a similar dimensioning as the one claimed in claim 7.

Claim 3: the features of this claim are merely constructional details well known to the skilled person and applied, whenever necessary, in order to solve the problem posed.

Thus the introduction of the features of dependent claims 3, 6 and 7 either singly or in combination into their respective independent claim would not seem to lead to an independent

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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claim which would satisfy Article 33(3) PCT.

I.L.Fülöp